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Substitute for form 1448A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1

1

1

**Complete if Known**

Application Number	40437,808 10/09/02
Filing Date	MAY 2, 2002
First Named Inventor	FRANK P. UCKERT ET AL.
Group Art Unit	1711
Examiner Name	UNKNOWN
Attorney Docket Number	PE0667 US NA

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)				
10		US - 5,708,130 A		01/13/1998	WOO ET AL.	/
10		US - 6,169,163 B1		01/02/2001	WOO ET AL.	
10		US - 6,204,515 B1		03/20/2001	BERNIUS ET AL.	
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sub>6</sub>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
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Examiner  
Signature*[Signature]*Date  
Considered

3/15/06

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(use as many sheets as necessary)*

Sheet	1	of	1
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**Complete If Known**

Application Number	<del>10/137,808</del> 10/829,142
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Filing Date	MAY 2, 2002
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First Named Inventor	FRANK P. UCKERT ET AL.
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Group Art Unit	1711
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Examiner Name	UNKNOWN
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Attorney Docket Number	PE0667 US NA
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## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentes or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sub>e</sub>
		Country Code <sup>2</sup>	Number <sup>4</sup>	KInd Code <sup>6</sup> ( <i>If known</i> )				
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		WO	00/53656	A1	09/14/2000	CAMBRIDGE DISPLAY TECHNOLOGY LTD		<input type="checkbox"/>
		WO	00/55927	A1	09/21/2000	CAMBRIDGE DISPLAY TECHNOLOGY LTD		<input type="checkbox"/>
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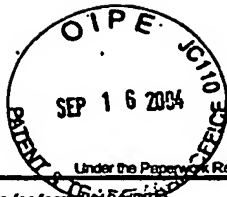
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 2

### Complete if Known

Application Number	10/809,142
Filing Date	March 25, 2004
First Named Inventor	Frank P. Uckert et al.
Group Art Unit	1714
Examiner Name	Unknown
Attorney Docket Number	PE0667USDIV1

### U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
LC		US - 4,508,639	04-02-1985	Camps et al.	/
		US - 5,621,131A	04-15-1997	Krauder et al.	
		US - 5,814,244A	09-29-1998	Krauder et al.	
		US - 5,821,002A	10-13-1998	Ohnishi et al.	
		US - 5,858,434A	01-05-1999	Stem et al.	
		US - 5,962,631A	10-05-1999	Woo et al.	
		US - 5,900,327A	05-04-1999	Pei et al.	
		US - 6,309,763 B1	10-30-2001	Woo et al.	
		US - 6,353,083 B1	03-05-2002	Inbasekaran et al.	
		US - 6,541,602 B1	04-01-2003	Spreitzer et al.	
		US - 6,653,438 B1	11-25-2003	Spreitzer et al.	
LC		US - 6,605,373 B1	08-12-2003	Woo et al.	
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### FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No.	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sub>6</sub>
LC		EP 0 259 229 B1	09-02-1987	Makromolekulare Chemie	/	<input type="checkbox"/>
		EP 0 956 312 B1	01-29-1998	JSR Corporation		<input type="checkbox"/>
LC		WO 01/07502 A2	02-01-2001	Cambridge Display Techn		<input type="checkbox"/>
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*[Signature]*

Date  
Considered

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>	<b>Complete if Known</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/809,142</td> </tr> <tr> <td>Filing Date</td> <td>March 25, 2004</td> </tr> <tr> <td>First Named Inventor</td> <td>Frank P. Uckert et al.</td> </tr> <tr> <td>Group Art Unit</td> <td>1714</td> </tr> <tr> <td>Examiner Name</td> <td>Unknown</td> </tr> <tr> <td>Attorney Docket Number</td> <td>PE0687USDIV1</td> </tr> </table>	Application Number	10/809,142	Filing Date	March 25, 2004	First Named Inventor	Frank P. Uckert et al.	Group Art Unit	1714	Examiner Name	Unknown	Attorney Docket Number	PE0687USDIV1
Application Number	10/809,142												
Filing Date	March 25, 2004												
First Named Inventor	Frank P. Uckert et al.												
Group Art Unit	1714												
Examiner Name	Unknown												
Attorney Docket Number	PE0687USDIV1												
Sheet <u>2</u> of <u>2</u>													

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
LC		DE 19848767, Partially conjugated polymer useful as an organic semiconductor or an electroluminescence material, and for display elements in television monitor and illumination technology contains fluorene building units, Abstract, 08-13-2000, Aventis Res & Technologies GmbH	<input type="checkbox"/>
		JP 2000319272, (Diarylamino) furan analogues with improved stability, useful pharmaceutical intermediates and electron hole transport or photosensitive materials, Abstract, 04-21-2001, Tosoh Corp	<input type="checkbox"/>
		JP 08157575, Carrier transport polymers – useful as carrier transport materials in organic thin film electroluminescence devices, Abstract, 10-25-1998, Toppan Printing Co. Ltd.	<input type="checkbox"/>
		JP 2000143778, Display element such as cathode ray tube and light emitting diode, comprises specified light emitting compound as color developing materials, Abstract, 10-08-2000, Samsung Denkan KK	<input type="checkbox"/>
		JP 10273522, Production of phenylene group-containing copolymers – comprises copolymerizing phenylene group-containing compounds in presence of catalysts containing transition metal compounds, Abstract, 01-13-1999, Nippon Gosei Gomu KK	<input type="checkbox"/>
		JP 10273521, Production of phenylene group-containing copolymers – comprises copolymerizing phenylene group-containing compounds in presence of catalysts containing transition metal compounds, Abstract, 12-23-1999, Nippon Gosei Gomu KK	<input type="checkbox"/>
		JP 03028220, Electrochromic elements for display or optical shield glass – contg. film of polyphenylene polymer derived from fluorene, Abstract, 09-28-1993, Idemitsu Kosan Co. Ltd.	<input type="checkbox"/>
		JP 03017120, Polyphenylene polymers used as conductive material or display material are produced by chemical or electrochemical-oxidative polymerizing of specified fluorene deriva, Abstract, 09-28-1993, Idemitsu Kosan Co. Ltd.	<input type="checkbox"/>
		JP 02269734, New polyphenylene-type polymer prepd. By oddn. Polymerization of fluorene derivé., Abstract, 09-28-1993, Idemitsu Kosan Co. Ltd.	<input type="checkbox"/>
LC		KR 99057430, Fluorene-based alternating statistical copolymer containing multi-luminescence groups and electroluminescence device using the same, Abstract, 07-15-1999, Korea Adv Inst Sci & Technology	<input type="checkbox"/>
		/	<input type="checkbox"/>

Examiner Signature		Date Considered	3/15/06
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Substitute for form 1449B/PTO		<b>Complete If Known</b>	
		Application Number	10/809,142
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Filing Date	March 25, 2004
		First Named Inventor	Frank P. Uckert Et. Al.
		Art Unit	1713
		Examiner Name	Unknown
		Attorney Docket Number	PE0667USDIV1
Sheet	1	of	1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
La		COWELL, ALLAN B. ET AL., Fluoroalkylation of Aromatic Compounds, Journal of Fluorine Chemistry, 17, 1981, 345-356, Elsevier Sequoia S.A., Lausanne, The Netherlands	<input type="checkbox"/>
Lc		KAMIGATA, NOBUMASA ET AL., Direct Perfluoroalkylation of Aromatic and Heteroaromatic Compounds with Perfluoroalkanesulfonyl Chlorides Catalysed by a Ruthenium (II) Phosphine Complex, J. Chem. Soc. Perkin Trans., 1, 1994, 1339-1346	<input type="checkbox"/>
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 2

### Complete If Known

Application Number	10/809,142
Filing Date	MARCH 25, 2004
First Named Inventor	FRANK P. UCKERT
Group Art Unit	1714
Examiner Name	UNKNOWN
Attorney Docket Number	PE0567US DIV1

### U.S. PATENT DOCUMENTS

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		Number - Kind Code <sup>2</sup>	(if known)			
/		US -	5,777,070 A	07-07-1998	Inbasekaran et al.	/
		US -	5,807,974 A	09-15-1998	Kim et al.	
		US -	5,876,864 A	03-02-1999	Kim et al.	
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		Country Code <sup>3</sup>	Number - Kind Code <sup>2</sup> (if known)				
/			WO 01/77203 A2	10-18-2001	Unilax Corporation	/	<input type="checkbox"/>
			WO 02/066537 A1	08-29-2002	Cambridge Display Techn		<input type="checkbox"/>
			WO 01/81294 A1	11-01-2001	Sony International GmbH		<input type="checkbox"/>
			WO 01/42331 A1	06-14-2001	Cambridge Display Tech & Max Planck Inst for Poly		<input type="checkbox"/>
			WO 00/46321 A1	08-10-2000	The Dow Chemical Co.		<input type="checkbox"/>
			WO 00/22027 A1	04-20-2000	Axiva GmbH		<input type="checkbox"/>
			WO 99/54385 A1	10-28-1999	The Dow Chemical Co.		<input type="checkbox"/>
			WO 00/53658 A1	09-14-2000	Cambridge Display Techn		<input type="checkbox"/>
/			WO 00/55927 A1	09-21-2000	Cambridge Display Techn		<input type="checkbox"/>
							<input type="checkbox"/>

Examiner  
Signature

*[Signature]*

Date  
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/809,142
		Filing Date	March 25, 2004
		First Named Inventor	Frank P. Uckert Et Al.
		Art Unit	1714
		Examiner Name	Unknown
Sheet 2 of 2	Attorney Docket Number	PE0667USDIV1	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
K		KOREAN PATENT ABSTRACTS, KR 00245841 B1, Fluorene-Based Alternating-Statistical Copolymer Containing Multi-Luminescence Groups and Electroluminescence Device Using The Copolymer, 12-01-1999, Korea Institute of Science and Technology	<input type="checkbox"/>
		KREYENSCHMIDT M. et al., Thermally Stable Blue-Light-Emitting Copolymers of Poly(alkylfluorene), Macromolecules, 1998, 1099-1103, 31, American Chemical Society	<input type="checkbox"/>
		LEE, JEONG-IK et al., Light-emitting electrochemical cells-based on poly(9,9-bis(3,6-dioxaheptyl)-fluorene-2,7-diy), Synthetic Metals, 2000, 195-197, 111-112, Elsevier Science S.A.	<input type="checkbox"/>
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Examiner Signature	<i>[Signature]</i>	Date Considered	5/15/06
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